## Venue

Hotel Inter-Continental Hamburg
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## Conference Bureau

The Conference Bureau will be in the Foyer of the Ballrooms.

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| Office hours: | Thursday, June 28, | 13:00–20:00 hours |
| | Friday, June 29, | 7:30–20:00 hours |
| | Saturday, June 30, | 7:30–19:00 hours |

## Registration

Registration will take place at the Registration Desk in the Conference Bureau.

## Invited Lectures

Slides should be handed over to Mrs. Stoltze at the Registration Desk at least one hour before presentation.

## Poster Presentation

Poster Presentation will take place in "Salon Lübeck". Posters should be attached to the screens on June 28, between 14:00 and 18:00 hours. Materials for displaying the posters will be available.

## Manuscripts for Publication

Manuscripts for Publication should be handed over to Mrs. Hund at the Registration Desk during the Symposium. If this is not possible, they should be sent to the Conference Secretariat in Bonn. Deadline: July 15, 1990

## Social Programme

Participants and their accompanying persons are invited to a buffet meal which will be served in "Ballroom II" on June 28, at 20:00 hours (informal dress). Interested persons can be offered a special Accompanying Persons' Programme. Information may be obtained in the Conference Bureau.

## Conference Folder

On registration, participants will receive a Conference Folder containing the Final Programme, the Book of Abstracts and the List of Participants as well as the Identification Badge.

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54 Long-term use of "low nicotine yield" cigarettes
*D. W. Sepkovic, S. G. Colosimo, C. M. Axelrad, N. J. Haley, Valhalla*

55 Cotinine concentration in the serum of smokers within a representative population in Southern Germany measured in 1984/85 and 1987/88
*W.-D. Heller, G. Scherer, J.-G. Gostomzyk, J. Stieber, F. X. Adlkofer, Karlsruhe and München*

12.20–14.30 **Poster Discussion**
(Refreshments will be served.)

## Session VII Nicotine and Human Disease

Chairmen *F. J. C. Roe, London*
*K. Kochsiek, Würzburg*

14.30 Introduction

14.45 Nicotine and cardiovascular disease
*N. L. Benowitz, San Francisco*

15.05 Nicotine and smoking in patients with ulcerative colitis
*R. V. Heatley, G. F. Cope, J. Kelleher, Leeds*

15.25 Smoking and Parkinson's disease
*R. Godwin-Austen, Nottingham*

15.45 Nicotine and human cognition
*B. J. Sahakian, G. M. M. Jones, R. Levy, J. A. Gray, D. M. Warburton, London, and Reading*

16.05 Nicotinic receptors in brains of healthy individuals and Alzheimer patients as visualized *in vivo* by positron emission tomography and $^{11}$C-methyl nicotine
*A. Nordberg, Uppsala*

16.25 Discussion

16.45–17.10 Coffee break

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## Posters

56 Effect of nicotine on the elastinolytic activity of human lung tumor cells and human alveolar macrophages
*G. Trefz, G. Klitsche, V. Schulz, W. Ebert, Heidelberg*

57 The association between serum cotinine, cigarette smoking and blood pressure: The CARDIA Study
*K. J. Ruth, N. J. Haley, L. E. Wagenknecht, G. D. Friedman, T. Manolio, K. Liu, Chicago, Valhalla, and Birmingham*

58 Doppler flow measurements and smoking in pregnancy
*W. Schmidt, W. Rühle, K. Ertan, Homburg/Saar*

• 59 Cigarette smoking and platelets
*R. Lassila, K. E. Laustiola, Helsinki*

60 Abstention from smoking may increase the risk of ulcerative colitis by enhancing eicosanoid production
*G. F. Cope, R. V. Heatley, J. Kelleher, Birmingham, and Leeds*

61 Cigarette smoking influences eicosanoid production by the colonic mucosa in a dose dependent manner
*G. F. Cope, R. V. Heatley, J. Kelleher, Birmingham and Leeds*

• 62 Effects of smoking on benzo (α) pyrene and glutathione metabolizing enzymes in man
*C. Bluhm, Düsseldorf*

17.10–18.10 Summaries
Chairmen of the Sessions

18.10 Concluding Remarks
K. Thurau, München

19.30 Banquet
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## Posters

41 Behavioral interaction between nicotine and caffeine: Effects of nicotine, caffeine, and their combination on locomotor activity
*C. Cohen, H. Welzl, K. Bättig, Zürich, and Baltimore*

42 Effects of pre- and postnatal injections of "smoking doses" of nicotine, or vehicle alone, on the maternal behavior and second generation adult behavior of Roman high- and low-avoidance rats
*P. Driscoll, C. Cohen, P. Fackelman, H. P. Lipp, K. Bättig, Zürich*

43 Alterations in septohippocampal cholinergic receptors and related behavior after early exposure to nicotine
*J. Yanai, C. G. Pick, Y. Rogel-Fuchs, E. A. Zahalka, Jerusalem*

44 Influence of neonatal nicotine exposure on development of nicotinic receptor subtypes and behavior in adult mice
*X. Zhang, P. Eriksson, A. Frederiksson, A. Nordberg, Uppsala*

45 Rearing and learning behaviors of rats after long-term administration of nicotine
*K. Nagai, H. Iso, S. Miyata, Hyogo*

46 Combined effect of nicotine and tobacco mosaic virus on dopamine receptors
*A. P. Singh, P. P. Singh, Bareilly*

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## Session VI Behavioral Effects of Nicotine in Man

Chairmen *D. M. Warburton, Reading*
*H.-W. Schlipköter, Düsseldorf*

10.30 Introduction

10.45 Putative neuroelectric correlates of smoking behavior
*V. J. Knott, Ottawa*

11.05 Comparative psychopharmacology: Putting nicotine in its place
*I. Hindmarch, Guildford*

11.25 Relationships between photic driving, nicotine, and memory
*G. L. Mangan, I. Colrain, Auckland*

11.45 Effects of nicotine on serial memory search
*R. West, Egham*

12.05 Discussion

## Posters

47 The influence of nicotine on CNS arousal during the menstrual cycle
*L. Dye, N. Sherwood, J. S. Kerr, Bochum*

48 Separate and combined effects of the social drugs on psychomotor performance
*J. S. Kerr, N. Sherwood, I. Hindmarch, Guildford*

49 Effects of nicotine gum on short-term memory
*N. Sherwood, J. S. Kerr, I. Hindmarch, Guildford*

50 Nicotine polacrilex gum and sustained attention
*A. C. Parrott, D. Craig, M. Haines, G. Winder, London*

51 Nicotine deprivation and nicotine reinstatement: Effects upon a brief sustained attention task
*A. C. Parrott, G. Roberts, London*

52 Concentrations of smoke constituents as related to nicotine yield, daily consumption, and individual smoking behavior
*I. Höfer, K. Bättig, Zürich*

53 Nicotine exposure and puffing behavior in the young habitual low-yield cigarette smokers
*S. Kolonen, J. Tuomisto, P. Puustinen, M. M. Airaksinen, Kuopio*

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17.05 Presynaptic actions of nicotine in the CNS
*S. Wonnacott, Bath*

17.25 Role of the forebrain cholinergic projection system in performance in the radial-arm maze in memory-impaired rats
*H. Hodges, J. A. Gray, Y. Allen, J. Sinden, London*

17.45 Discussion

## Posters

30 Nicotine infusion in man stimulates plasma-vasopressin, -ACTH and -cortisol in a dose dependent manner
*J. Stalke, O. Hader, J. Hensen, V. Bähr, G. Scherer, W. Oelkers, Berlin and München*

31 A single dose of nicotine may be sufficient to induce tyrosine hydroxylase in noradrenergic neurones
*K. M. Smith, M. H. Joseph, J. A. Gray, London*

32 The effect of acute and repeated nicotine injections on brain dopamine activation: Comparisons with morphine and amphetamine
*P. Vezina, D. Hervé, J. Glowinski, J.-P. Tassin, Paris*

33 Effects of pre- and postnatal treatment with nicotine or postnatal exposure to cigarette smoke on hypothalamic catecholamine nerve terminal systems and neuroendocrine function in adult male and female rats
*K. Andersson, A. Jansson, B. Bjelke, P. Eneroth, K. Fuxe, Stockholm*

34 The effect of chronic nicotine treatment on 1-methyl-4-phenyl-1,2,3,6-tetrahydro-pyridine induced degeneration of nigrostriatal dopamine neurons in the black mouse
*A. M. Janson, K. Fuxe, L. F. Agnati, E. Sundström, M. Goldstein, Stockholm, Modena, and New York*

35 The effect on intra-accumbens nomiphensine on nicotine-induced dopamine secretion from the nucleus accumbens – A microdialysis study
*M. E. M. Benwell, D. J. K. Balfour, Dundee*

36 Effects of nicotine and nicotine withdrawal on local cerebral glucose utilization
*W. Kuschinsky, H. Schröck, Heidelberg*

37 Preliminary studies on the *in vivo* desensitization of central nicotinic receptors by (-)-nicotine
*H. F. Villanueva, J. A. Rosecrans, S. Arezo, Richmond*

38 Cellular localization and functional properties of nicotinic receptors on cultured cortical neurons from rat brain
*P. M. Lippiello, E. N. Fluhler, K. G. Fernandes, Winston-Salem*

39 The novel polypeptide thymopoietin potently and specifically interacts at the nicotinic $\alpha$-bungarotoxin receptor population in nervous tissue
*M. Quik, Montréal*

40 Nicotine increases the firing rate of ventral tegmental area neurons *in vitro*
*M. S. Brodie, Abbott Park*

18.00–20.00 **Poster Viewing**
(Vine and cheese will be served.)

## Saturday, June 30

### Session V Behavioral Effects of Nicotine in Animals

Chairmen *K. Bättig, Zürich*
*U. Löhrs, Lübeck*

8.00 Introduction

8.15 Studies on the role of mesolimbic dopamine in behavioral responses to chronic nicotine
*D. J. K. Balfour, M. E. M. Benwell, A. L. Vale, Dundee*

8.35 Regulation of intravenous nicotine self-administration
*W. A. Corrigall, Toronto*

8.55 Nicotine-seeking behavior in Rhesus monkeys
*T. Yanagita, K. Ando, Y. Wakasa, K. Takada, Kawasaki*

9.15 Genetic regulation of behavioral and physiological sensitivity to nicotine
*A. C. Collins, M. J. Marks, J. R. Pauly, Boulder*

9.35 Discussion

10.00–10.30 Coffee break

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